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FURUKAWA ELECTRIC CO LTD:THE

**Inventor(s):** ;INO AKIRA ;ORIMO KATSUMI ;KOKAYU MIKIO ;TAMURA JUNICHI**Application No.** 60065888 , **Filed** 19850329 , **Published** 19861003**Abstract:**

**PURPOSE:** At least one of the core and the clad of an optical fiber in which at least the core is composed of quartz is doped with  $\text{GeO}_2$  and F to improve the hydrogen resistance and radiation resistance of the optical fiber.

**CONSTITUTION:** In the above-mentioned doping, the concentration of  $\text{GeO}_2$  is lower than 12mol% and the concentration molar ratio of  $\text{GeO}_2$  to F is more than 4. The effect cited above is similarly obtained in an optical fiber which is composed of quartz in both the core and the clad.

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